

E' 32. (Amended) The cell of claim 49 [31], wherein said peripheral tissue comprises olfactory epithelium.

sub 7' 33. (Amended) The cell of claim 49 [31], wherein said peripheral tissue comprises tongue.

Q 28 sub 62 38. (Amended) The [precursor] cell of claim 49 [31], wherein said cell expresses nestin.

Q 33 sub 63 41. (Amended) The [precursor] cell of claim 49 [31], said cell transfected with a heterologous gene.

Q 44 sub 63 43. (Amended) A mitotic cell that is the progeny of the cell of claim 49 [a precursor cell isolated from a peripheral tissue of a postnatal mammal, wherein said peripheral tissue comprises a sensory receptor].

44. (Amended) A differentiated cell that is the progeny of the cell of claim 49 [a precursor cell isolated from a peripheral tissue of a postnatal mammal, wherein said peripheral tissue comprises a sensory receptor].

Q 5 46. (Amended) A pharmaceutical composition comprising a mitotic or differentiated cell that is the progeny of a neural stem [precursor] cell isolated from a

ESoot  
peripheral tissue of a postnatal mammal, wherein said peripheral tissue comprises a sensory receptor, and a pharmaceutically acceptable carrier, auxiliary or excipient.

47. (Amended) A pharmaceutical composition comprising a neural stem  
[precursor] cell isolated from a peripheral tissue of a postnatal mammal, wherein said peripheral tissue comprises a sensory receptor, and a pharmaceutically acceptable carrier, auxiliary or excipient.

Kindly add new claim 49.

49. A neural stem cell in the central nervous system of a mammal, said neural stem cell produced by a method comprising the steps of:

- (a) providing a culture of peripheral tissue containing sensory receptors from said mammal;
- (b) isolating a neural stem cell from said peripheral tissue, said neural stem cell capable of producing neurons and glia; and
- (d) transplanting said neural stem cell into the central nervous system of said mammal.